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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/840,471		04/23/2001	Joseph D. Long	2400-663	1934
27820	7590	09/15/2003			
		RANOVA, P.L.L	EXAMINER		
P.O. BOX 1 CARY, NC				SAN MARTIN, EDGARDO	
				ART UNIT	PAPER NUMBER
				2837	
				DATE MAILED: 09/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

TOL-326 (Re	v. 04-01) Office Acti	on Summary	Part of Paper No. 7
2) Notice 3) Inform S. Patent and Train		5) Notice of Informal P 6) Other:	(PTO-413) Paper No(s) atent Application (PTO-152)
Attachment(•	_	
15) <u></u> A∂	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. §§ 120	and/or 121.
	☐ The translation of the foreign language prov		•
	cknowledgment is made of a claim for domestic		
* Se	application from the International Bure ee the attached detailed Office action for a list o	eau (PCT Rule 17.2(a)).	_
;	3. Copies of the certified copies of the priori	ty documents have been receive	
:	2. Certified copies of the priority documents		on No
	1. Certified copies of the priority documents	have been received.	
	☐ All b)☐ Some * c)☐ None of:		
13) 🗌	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).
Priority u	nder 35 U.S.C. §§ 119 and 120		
12)[] T	he oath or declaration is objected to by the Exa	aminer.	
	If approved, corrected drawings are required in rep		•
11)[] T	he proposed drawing correction filed on		
٠-,١	Applicant may not request that any objection to the	·	
	The drawing(s) filed on is/are: a) accept		miner
	The specification is objected to by the Examiner		
	Claim(s) are subject to restriction and/or on Papers	election requirement.	
	Claim(s) 7.8 and 36 is/are objected to.	alastian manitus —	
	Claim(s) <u>1-6,9-13 and 30-35</u> is/are rejected.		
_	Claim(s) is/are allowed.		
	4a) Of the above claim(s) is/are withdraw	n from consideration.	
	Claim(s) <u>1-13 and 30-36</u> is/are pending in the	•	
· · · _	on of Claims		
,	closed in accordance with the practice under I	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.
3)	Since this application is in condition for allowa		respectation as to the marite in
2a) <u>□</u>		s action is non-final.	
1)⊠	Responsive to communication(s) filed on 25 J	ulv 2003 .	
THE N - Exter after - If the - If NO - Failur - Any r	MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35.U.S.C. 8.133)
	ORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EXPIRE 3 MONTH	S) FROM
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence address
		Edgardo San Martin	2837
	Office Action Summary	Examiner	Art Unit
		09/840,471	LONG ET AL.
		Application No.	Applicant(s)
4.7	——		

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 1 – 13 and 30 – 36 in Paper No. 6 is acknowledged.

Specification

- 2. The disclosure is objected to because of the following informalities:
 - On page 2, line 23 the serial number of the copending application is missing;
 - On page 7, line 4, should read - 14 - instead of "18";
 - On page 13, line 4 the serial number of the copending application is missing.

Appropriate correction is required.

Claim Objections

- 3. Claim 3 is objected to because of the following informalities:
 - Claim 3 contains the trademark/trade names Lexan and Plexiglas.

 Where a trademark or trade name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of 35 U.S.C. 112, second paragraph.

 See *Ex parte Simpson*, 218 USPQ 1020 (Bd. App. 1982). The claim

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scope is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product. A trademark or trade name is used to identify a source of goods, and not the goods themselves. Thus, a trademark or trade name does not identify or describe the goods associated with the trademark or trade name. In the present case, the trademark/trade name is used to identify/describe the semi-rigid lens and, accordingly, the identification/description is indefinite.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1 6, 13, 30, 32 and 35 are rejected under 35 U.S.C. 102(e) as being anticipated by Azima et al. (US 2001/0026625).

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With respect to Claims 1, 2 and 30, Azima et al. teach a thin speaker, comprising a rigid enclosure (Fig.4, Item 41) having an opening (Fig.4, Item 45) that is smaller in size than the dimensions of the rigid enclosure, a semi-rigid lens (Fig.4, Item 46) placed in the opening, and a magnetic driver (Fig.4, Item 48) inside of the rigid enclosure and attached to the semi-rigid lens wherein the magnetic driver vibrates the semi-rigid lens to create sound, and wherein the magnetic driver further comprises a magnetic coil and a diaphragm attached to the semi-rigid lens (¶ [0050]).

With respect to Claims 3 and 4, Azima et al. teach wherein said semi-rigid lens is constructed from a material comprised from the group consisting of plastic, glass, Lexan, and Plexiglas, and wherein the semi-rigid lens is transparent (¶ [0048]).

With respect to Claims 5 and 35, Azima et al. teach wherein the rigid enclosure contains a LCD module (Fig.4, Item 51) that is viewable through the semi-rigid lens (¶ [0050]).

With respect to Claim 6, Azima et al. teach wherein the semi-rigid lens is attached to the rigid enclosure (Fig.4; ¶ [0050]).

With respect to Claims 13 and 32, Azima et al. teach wherein his display could be used in ATM's and vending machines, it is inherent that if the display is used in these types of applications, the display enclosure is environmentally-sealed because is typical to place these type of machine in places where could be subject to environmental occurrences.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 9 12 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Azima et al. (US 2001/0026625) in view of Bertagni et al. (US 5,693,917).

With respect to Claims 9 and 31, Azima et al. teach the limitations discussed in the previous rejections, but fail to disclose the speaker system further comprising a mounting bracket for attaching the magnetic driver to the semi-rigid lens.

On the other hand, Bertagni et al. teach a planar speaker comprising a mounting bracket (Fig.1, Item 22) for attaching a magnetic driver (Fig.1, Item 18) to diaphragm (Fig.1, Item 12).

It would have been obvious to a person with ordinary skill in the art to employ the Bertagni et al. mounting bracket to attach the Azima et al. driver to the semi-rigid lens because the mounting bracket would permit the attachment of the driver to the semi-rigid lens in a manner that would permit the semi-rigid lens to freely vibrate and function as a speaker diaphragm or acoustic radiator.

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With respect to Claim 10, Bertagni et al. teach wherein the mounting bracket is rectangular in shape and has a left end and a right end and the magnetic driver is attached in between the left end and the right end (Fig.1).

With respect to Claim 11, Bertagni et al. teach wherein the mounting bracket is attached to a diaphragm for increased vibration of the diaphragm for increased sound volume (Col.3, Lines 11 - 48).

With respect to Claim 12, Bertagni et al. teach wherein the mounting bracket is attached to the diaphragm (Fig.1).

6. Claims 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Azima et al. (US 2001/0026625) in view of Applicant's admitted prior art.

Azima et al. teach the limitations discussed in the previous rejections, but fail to disclose the rigid enclosure being attached to a kiosk.

Nevertheless, the Applicant's admitted prior art teaches the use of speaker systems in fuel dispenser, ATM or similar electronic devices (¶ [0003]).

It would have been obvious to a person with ordinary skill in the art to employ the Azima et al. speaker design in a kiosk, ATM or fuel dispenser as suggested by admitted prior art because it would facilitate the intention to communicate a message to an user of the electronic device, increasing the performance of the system.

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Allowable Subject Matter

7. Claims 7, 8 and 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kam teaches a transparent panel-form loudspeaker, Lipponen et al. teach an audio transducer, Toki teaches a piezoelectric diaphragm and piezoelectric speaker, Roy et al. teach a flat panel sound radiator and assembly system, Lamm et al. teach a plenum mounted, flat panel masking loudspeaker system, Bertagni teaches an integrated sound and video screen, Hill teaches an acoustic transducer, Lipponen et al. teach an audio transducer and audio visual device, Matsuo teaches a speaker device, Toyoda teaches a transparent speaker, Takashima teaches a speaker, and Saiki et al. teach a speaker system, mobile terminal device and electronic device.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edgardo San Martin whose telephone number is (703) 308-1050. The examiner can normally be reached on 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Nappi can be reached on (703) 308-3370. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Edgardo San Martín

Patent Examiner

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Class 181

September 7, 2003